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GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090001
Agency Interest No. 83425

David V. Wise
Vice President
Shintech Louisiana, LLC
PO Box 358
Addis, LA 70710

RE: Part 70 Operating Permit, Shintech Louisiana LLC - Addis Plant A
Shintech Louisiana LLC, Addis, West Baton Rouge Parish, Louisiana

Dear Mr. Wise:

This is to inform you that the permit renewal and minor modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 2639-V4

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:alr
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shintech Louisiana LLC - Addis Plant A
Agency Interest No.: 83425
Shintech Louisiana LLC
Addis, West Baton Rouge Parish, Louisiana**

I. Background

Shintech Louisiana LLC, Shintech Louisiana LLC - Addis Plant A is an existing Polyvinyl Chloride (PVC) facility which currently operates under Permit No. 2639-V3, issued August 27, 2008.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Shintech Louisiana LLC on March 23, 2009 requesting a Part 70 operating permit renewal and minor modification. Additional Information was submitted September 16, 2009.

III. Description

The PVC manufacturing process includes the following major components:

- Raw material receipt, storage, and preparation;
- A batch suspension polymerization process;
- PVC product finishing;
- Final product handling and storage; and
- Support facilities.

Raw Material Receipt, Storage, and Preparation

The primary raw material, or feedstock, used to manufacture PVC is vinyl chloride monomer (VCM). Approximately 1.3 billion pounds of VCM per year is used in the process. VCM is mainly received at the plant via pipeline from an adjacent industrial facility. Other raw materials essential to the process are suspending agents, reaction initiators, inhibitors, and organic solvents. These materials are received by truck and stored in warehouses, storage tanks and under covered areas. The VCM, which is ready for process polymerization upon receipt, is introduced to the PVC reactors via piping from a charge tank.

All necessary chemicals for the polymerization process are mixed and stored under proper conditions before charging to the reactors. Methanol, ethanol, and mineral spirits are used as solvents or anti-freeze agents for the polymerization process chemicals.

Batch Suspension Polymerization Process

The PVC suspension polymerization process produces PVC in the form of slurry by polymerizing VCM in water with reaction initiators and suspending agents. Reactors consisting

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of jacketed vessels with agitators and other related equipment. VCM is charged to a stirred autoclave reactor with the water and suspending agents (allowing VCM and water to form a single phase). After the ingredients are mixed, initiators are added to start the reaction and the VCM is converted to produce PVC. During polymerization, the reaction is controlled by the computer control system to maintain optimum conditions. The operation is a closed reactor operation with clean wall technology. A closed reactor does not require that the reactor be opened for every batch, minimizing VCM losses to the atmosphere due to the reactor openings. The PVC mixture, a slurry of 30-35% by volume PVC, is pumped to slurry holding tanks. Aqueous ammonia can be added to adjust the pH of the PVC slurry.

The bulk of the un-reacted VCM is removed by degassing to the gasholder and routed to the VCM recovery process. Recovered gas is compressed, liquefied and purified for re-use. The non-condensable gases (non-recovered VCM) in the recovery units are sent to the thermal oxidizers. VCM contaminated wastewater is sent to the wastewater stripper.

PVC Product Finishing

The purpose of this process step is to remove VCM from the PVC slurry. The product PVC slurry is discharged from the slurry tanks and fed to steam stripping columns where steam is used as the stripping medium. VCM recovered from the steam stripper is sent to VCM recovery units for reuse in the process. VCM contaminated wastewater is steam stripped to remove VCM and is then routed to the bio-treatment plant.

The PVC slurry is subsequently separated into PVC granules and water. There are two dewatering and drying units consisting of centrifuges and fluidized-bed dryers. After steam stripping, the PVC slurry is dewatered by centrifuges where it is separated into PVC wet cake and water. The PVC wet cake is then dried in a fluidized-bed dryer, which generates PVC granules. The PVC dry granules and air are separated by cyclone separators. In order to minimize particulate emissions, the air vent from the top of the cyclones is ejected to the atmosphere through a wet scrubber which has a minimum of fifty gallon per minute water flow rate. The dried PVC granules (final product) are screened by sieves before being sent to storage silos to remove over-sized products. Several grades of product are manufactured.

Wastewater removed from the PVC slurry is sent to the on-site wastewater treatment plant (WWTP). The majority of methanol and ethanol charged to the reactors is part of the PVC slurry wastewater.

Final Product Handling and Storage

The PVC granules are transferred from the dryer systems to six product-storage silos and three bagging silos through pneumatic conveyor systems, which feature high-efficiency cyclone separators and baghouses to minimize particulate emissions. The final product is transported to

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customers by bulk trucks, railcars, flex bags, and paper bags. Broken bags are collected into hopper cars through the Broken Bag Recovery System, which has a baghouse to minimize particulate emissions. PVC granules remaining in empty railcars are collected into a hopper car cleaning silo through a vacuum cleaning system, which has a cyclone separator and baghouse to minimize particulate emissions.

Supporting Facilities

Supporting Facilities include bulk truck loading and unloading areas, railcar loading and unloading areas, on-site utilities, steam generating units, air emission control equipment and a wastewater treatment plant (WWTP).

Cooling water is recycled through the cooling tower system. Chlorine is used to control algae in the cooling tower.

Clean-burning fuels (natural gas) will be used for steam generating units (boilers), which are equipped with low nitrogen oxide (NOx) burners (LNB) and flue gas recirculation (FGR). The plant operates two thermal oxidizers to destroy non-recovered VCM. Non-recovered VCM contains a small amount of 1,2-dichloroethane, methyl chloride and other chlorinated and non-chlorinated hydrocarbons which come with the VCM feedstock as impurities.

Wastewater generated from the PVC process consists of wastewater from the centrifuges, reactor washing water, and direct contact process water. VCM-contaminated wastewater is collected in a storage tank via a hard pipe and sent to a pre-treatment unit where VCM is steam stripped. Stripped VCM is piped to a wet gasholder where most of the VCM is recovered for reuse in the process and the rest is sent to the thermal oxidizers. Effluent from the wastewater stripper is piped to the WWTP as well as the effluent water from the centrifuges.

The WWTP is a 2,000,000 gallons per day system consisting of a biological treatment system, pH adjustment basin, final basin and sludge dewatering system.

The biological treatment system includes a bio-treatment basin, clarifier, and other supporting equipment. Activated sludge is used to destroy methanol, ethanol, and other organic chemicals to reduce biological oxygen demand (BOD). Effluent from the biological treatment system is discharged to the final basin. A portion of the wastewater treated in the biological treatment process is recycled and reused in the PVC plant process.

The pH adjustment basin receives cooling tower blowdown, boiler blowdown, thermal oxidizer blowdown and regeneration wastewater from the deionized water unit and softner. These wastewaters are pH adjusted and then discharged to the final basin.

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The final basin receives effluent from the biological treatment system and from the pH adjustment basin. Effluent from the basin is discharged off-site to the Shintech's Mississippi River water station.

Additionally Shintech seeks to reconcile fugitive equipment leaks from railcar unloading to the facility-wide fugitive emissions (EPN P-16). There are no physical changes or changes in method of operation associated with this renewal permit. All emission changes are due to reconciliation of previous permitted emissions.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	75.17	75.17	-
SO ₂	0.96	0.96	-
NO _X	62.62	62.62	-
CO	50.36	50.36	-
VOC *	49.68	49.74	+0.06

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	0.01	<0.01	- <0.01
n-Butanol	0.14	0.14	-
1,2-Dichloroethane	0.02	0.02	-
Ethyl Chloride	0.52	0.52	-
Formaldehyde	0.09	0.09	-
Methyl Chloride	0.01	<0.01	- <0.01
Methanol	8.32	8.33	+0.01
Toluene	0.01	0.01	-
Vinyl Chloride	22.10	22.18	+0.08
Total	31.22	31.31	+0.09

Other VOC (TPY): 18.43

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Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Ammonia	0.97	0.97	-
Chlorine	0.78	0.78	-
Hydrochloric Acid	0.46	0.46	-
Total	2.21	2.21	-

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Emission limits of LAC 33:III.Chapter 51 TAPs shall be state-only enforceable, unless they are subject to federal regulations.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental

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Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the facility were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Work Activity	Emission Rates - tons			
	PM ₁₀	SO ₂	NO _x	CO
Equipment opening for routine operations				0.02
Slurry Sampling				0.06
Instrument Maintenance				<0.01

IX. Insignificant Activities

ID No.:	Description	Citation
-	LB Make Up Tank	LAC 33:III.501.B.5.A.3
-	LH Make Up Tank	LAC 33:III.501.B.5.A.3
-	LD Make Up Tank	LAC 33:III.501.B.5.A.3
-	LJ Make Up Tank	LAC 33:III.501.B.5.A.3
-	Laboratory Equipment Vents	LAC 33:III.501.B.5.A.6
-	Fuel Oil Storage Tanks	LAC 33:III.501.B.5.A.3
-	Caustic Soda Tanks	LAC 33:III.501.B.5.A.10
-	Sulfuric Acid Tanks	LAC 33:III.501.B.5.A.5
-	MS River Water Pump Station Diesel Tank	LAC 33:III.501.B.5.A.2
-	IFS Make Up Tank	LAC 33:III.501.B.5.A.3
-	IFS Measuring Tank	LAC 33:III.501.B.5.A.3

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33 III. Chapter									
		5▲	9	11	13	15	2103	2113	2122	22	51*
UNF0001	Facility Wide		1	1	1			1		3	1
EQT0026	P-1 Scrubber A		1		1	1		3			1
EQT0027	P-2 Scrubber B		1		1	1		3			1
EQT0028	P-3 Delivery Silo A		1		1	1					
EQT0029	P-4 Delivery Silo B		1		1	1					
EQT0030	P-5 Delivery Silo C		1		1	1					
EQT0031	P-6 Delivery Silo D		1		1	1					
EQT0032	P-7 Delivery Silo E		1		1	1					
EQT0033	P-8 Delivery Silo F		1		1	1					
EQT0034	P-9 H/C Cleaning Silo		1		1	1					
EQT0035	P-10 CGF Storage Tank						3				
EQT0036	P-11 TB Storage Tank						1		1		
EQT0037	P-12 TE Storage Tank						3				
EQT0038	P-13 BN Storage Tank						3		1		
EQT0039	P-14 Cooling Tower									1	
EQT0040	P-15 Reactors		1							1	
FUG0001	P-16 Fugitive Emissions			1					1		
EQT0041	P-17 IF Make Up Tank		1				3		1		

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ID No.:	Description	LAC 33:III.Chapter									
		5▲	9	11	13	15	2103	2113	2122	22	51*
EQT0042	P-18 IF Measuring Tank	1					3				1
EQT0043	P-19 UG Make Up Tank					1					1
EQT0044	P-20 UG Measuring Tank					1					1
EQT0045	P-21 UH Make Up Tank					3					
EQT0046	P-22 UH Measuring Tank					3					
EQT0047	P-23 CG Make Up Tank					1					1
EQT0048	P-24 CG Measuring Tank					1					1
EQT0049	P-25 OZ Make Up Tank	1				3					1
EQT0050	P-26 OZ Measuring Tank	1				3					1
EQT0051	P-28 Boiler A		1	1	1	3					
EQT0052	P-29 Boiler B		1	1	1	3					
EQT0053	P-30 Boiler C		1	1	1	3					
EQT0054	P-32 Thermal Oxidizer A	1	1	1	3						1
EQT0055	P-33 Thermal Oxidizer B	1	1	1	3						1
EQT0056	P-34 TN Storage Tank					3					
EQT0079	P-35 Equipment Opening for Maintenance and Annual Shutdown										
EQT0080	P-36 IB Loading Hopper					1					
EQT0081	P-37 IC Loading Hopper					1					
EQT0082	P-38 IFS Loading Hopper					1					

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ID No.:	Description	LAC 33.III.Chapter									
		5▲	9	11	13	15	2103	2113	2122	22	51*
EQT0083	P-39 Emergency Combustion Equipment										
EQT0057	P-SS Slurry Stripper	1									1
EQT0058	P-RS VCM Receiver System	1									
EQT0059	P-1a Cusion Tank	-									
EQT0060	P-2a Cushion Tank	-									
EQT0061	P-GH1 Gas Holder No. 1	1									
EQT0062	P-GH2 Gas Holder No. 2	1									
EQT0063	P-KOT Knock-Out Tank	1									
EQT0064	P-RU1 VCM Recovery Unit No. 1	1									
EQT0065	P-RU2 VCM Recovery Unit No. 2	1									
EQT0066	P-C Centrifuges	1									
EQT0067	P-D Dryers	-									
EQT0068	P-S Separators	-									
EQT0069	P-WWT Wastewater Tank	1									
EQT0070	P-WWS Wastewater Stripper	1									
EQT0071	PVCWW-1 Centrifuge Wastewater Discharge	1									
EQT0072	PVCWW-2 Wastewater Stripper Discharge	1									
EQT0073	PVCWW-2a Gasholder No. 1 WW Discharge	1									
EQT0074	PVCWW-2b Knock-Out Tank WW Discharge	1									

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter									
		5▲	9	11	13	15	2103	2113	2122	22	51*
EQT0075	PVCWW-2c VC Recovery WW Discharge	1									
EQT0076	PVCWW-2d Gasholder No. 2 WW Discharge	1									
EQT0077	PVCWW-2e Slurry Stripper WW Discharge	1									
EQT0084	P-40 Bagging Silo A	1									
EQT0085	P-41 Bagging Silo B	1									
EQT0086	P-42 Bagging Silo C	1									
EQT0087	P-43 DK-Unit A Vacuum Blower No. 1	1									
EQT0088	P-44 DK-Unit A Vacuum Blower No. 2	1									
EQT0089	P-45 DK-Unit B Vacuum Blower No. 1	1									
EQT0090	P-46 DK-Unit B Vacuum Blower No. 2	1									
EQT0091	P-47 Dust Collector	1									
EQT0092	P-48 DK-Unit C Vacuum Blower	1									
EQT0093	P-49 Broken Bag Recovery System	1									
GRP0002	P-Cap Delivery & Bagging Silo Group	1									

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III. Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR				
		A	Db	Dc	Kb	VV	A	F	V	FF	A	B	H	J	Q	64	68	
UNF0001	Facility Wide	1					1	1		2	1					1		
EQT0026	P-1 Scrubber A						1				1						3	
EQT0027	P-2 Scrubber B						1				1						3	
EQT0028	P-3 Delivery Silo A						1				1						1	
EQT0029	P-4 Delivery Silo B						1				1						1	
EQT0030	P-5 Delivery Silo C						1				1						1	
EQT0031	P-6 Delivery Silo D						1				1						1	
EQT0032	P-7 Delivery Silo E						1				1						1	
EQT0033	P-8 Delivery Silo F						1				1						1	
EQT0034	P-9 H/C Cleaning Silo						1				1						1	
EQT0035	P-10 CGF Storage Tank						3											
EQT0036	P-11 TB Storage Tank						3											
EQT0037	P-12 TE Storage Tank						3											
EQT0038	P-13 BN Storage Tank						3											
EQT0039	P-14 Cooling Tower															1		
EQT0040	P-15 Reactors															1		
FUG0001	P-16 Fugitive Emissions															1	1	
EQT0041	P-17 IF Make Up Tank										3					1		

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR 68 CIR												
		A	Db	Dc	Kb	VV	A	F	V	FF	A	B	H	J	Q	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
EQT0042	P-18 IF Measuring Tank					3																										
EQT0043	P-19 UG Make Up Tank						3																									
EQT0044	P-20 UG Measuring Tank							3																								
EQT0045	P-21 UH Make Up Tank								3																							
EQT0046	P-22 UH Measuring Tank								3																							
EQT0047	P-23 CG Make Up Tank								3																							
EQT0048	P-24 CG Measuring Tank									3																						
EQT0049	P-25 OZ Make Up Tank									3																						
EQT0050	P-26 OZ Measuring Tank										3																					
EQT0051	P-28 Boiler A										1																					
EQT0052	P-29 Boiler B										1																					
EQT0053	P-30 Boiler C										1																					
EQT0054	P-32 Thermal Oxidizer A											1																				
EQT0055	P-33 Thermal Oxidizer B												1																			
EQT0056	P-34 TN Storage Tank													3																		
EQT0079	P-35 Equipment Opening for Maintenance and Annual Shutdown																															
EQT0080	P-36 JB Loading Hopper																															
EQT0081	P-37 IC Loading Hopper																															

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ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		A	Db	Dc	Kb	VV	A	F	V	FF	A	B	H	J	Q	64	68
EQT0082	P-38 IFS Loading Hopper																
EQT0083	P-39 Emergency Combustion Equipment																
EQT0057	P-SS Slurry Stripper										1						
EQT0058	P-RS VCM Receiver System										1						
EQT0059	P-1a Cusion Tank										3	1					
EQT0060	P-2a Cushion Tank										3	1					
EQT0061	P-GH1 Gas Holder No. 1										1						
EQT0062	P-GH2 Gas Holder No. 2										1						
EQT0063	P-KOT Knock-Out Tank										1						
EQT0064	P-RU1 VCM Recovery Unit No. 1										1						
EQT0065	P-RU2 VCM Recovery Unit No. 2										1						
EQT0066	P-C Centrifuges										1						
EQT0067	P-D Dryers										1						
EQT0068	P-S Separators										1						
EQT0069	P-WWT Wastewater Tank										1						
EQT0070	P-WWS Wastewater Stripper										1						
EQT0071	PVCWW-1 Centrifuge Wastewater Discharge										1						
EQT0072	PVCWW-2 Wasterwater Stripper Discharge										1						
EQT0073	PVCWW-2a Gasholder No. 1 WW Discharge										1						

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ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR NESHAP				40 CFR			
		A	Db	Dc	Kb	VV	A	F	V	FF	A	B	H	J	Q	64	68										
EQT0074	PVCWW-2b Knock-Out Tank WW Discharge																										
EQT0075	PVCWW-2c VC Recovery WW Discharge																										
EQT0076	PVCWW-2d Gasholder No. 2 WW Discharge																										
EQT0077	PVCWW-2e Slurry Stripper WW Discharge																										
EQT0084	P-40 Bagging Silo A																										
EQT0085	P-41 Bagging Silo B																										
EQT0086	P-42 Bagging Silo C																										
EQT0087	P-43 DK-Unit A Vacuum Blower No. 1																										
EQT0088	P-44 DK-Unit A Vacuum Blower No. 2																										
EQT0089	P-45 DK-Unit B Vacuum Blower No. 1																										
EQT0090	P-46 DK-Unit B Vacuum Blower No. 2																										
EQT0091	P-47 Dust Collector																										
EQT0092	P-48 DK-Unit C Vacuum Blower																										
EQT0093	P-49 Broken Bag Recovery System																										
GRP002	P-Cap Delivery & Bagging Silo Group																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC - Addis Plant A
Agency Interest No.: 83425
Shintech Louisiana LLC
Addis, West Baton Rouge Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC - Addis Plant A
 Agency Interest No.: 83425
Shintech Louisiana LLC
Addis, West Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF0001 - Facility Wide	NESHAP 40 CFR 61, Subpart FF – National Emission Standard for Benzene Waste Operations, 40 CFR 61.342 NESHAP 40 CFR 63, Subpart J – National Emission Standards for Polyvinyl Chloride and Copolymer production	EXEMPT – facility handles <10 Mg/yr of benzene waste. DOES NOT APPLY – Subpart J was vacated and therefore, is not applicable.
EQT0026 & EQT 0027 – P-1, P-2: Scrubbers A & B	CAM 40 CFR 64 – Compliance Assurance Monitoring	DOES NOT APPLY – not a pollutant-specific emissions unit subject to an applicable requirement that constitutes an emission limitation, emission standard, standard of performance, or means of emission limitation as defined under the Federal Clean Air Act.
EQT0059 & EQT0060 – P-1a, P-2a: Cushion Tanks	Storage of Volatile Organic Compounds, LAC 33:III.2103 NSPS 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b	DOES NOT APPLY – process tanks DOES NOT APPLY – Process tanks per 40 CFR 60.111b and not a storage vessel.
EQT0028-34, P-3,4,5,6,7,8, &9: PVC Silos	CAM 40 CFR 64 – Compliance Assurance Monitoring	DOES NOT APPLY – not a pollutant-specific emissions unit subject to an applicable requirement that constitutes an emission limitation, emission standard, standard of performance, or means of emission limitation as defined under the Federal Clean Air Act.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC - Addis Plant A
Agency Interest No.: 83425
Shintech Louisiana LLC
Addis, West Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0035, 37, 45, 46, & 56 – P-10, 12, 21, 22, & 34: CGF, TZ, TN, UH Tanks	Storage of Volatile Organic Compounds, LAC 33:III.2103 NSPS 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b	DOES NOT APPLY – maximum true vapor pressure is less than 1.5 psia. DOES NOT APPLY – volume less than 75 m ³ (19,813 gallons).
EQT0036, 43, 44, 47, & 48 – P-11, 19, 20, 23, & 24: Methanol Tanks	NSPS 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b	DOES NOT APPLY – volume less than 75 m ³ (19,813 gallons).
EQT0038 – P-13: BN Storage Tank	Storage of Volatile Organic Compounds, LAC 33:III.2103 NSPS 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b	DOES NOT APPLY – tank does not store volatile organic liquid.
EQT0041, 42, 49, & 50 – P-17, 18, 25, & 26: Storage Tanks	Storage of Volatile Organic Compounds, LAC 33:III.2103	DOES NOT APPLY – maximum true vapor pressure is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC - Addis Plant A
Agency Interest No.: 83425
Shintech Louisiana LLC
Addis, West Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0041, 42, 49, & 50 – P- 17, 18, 25, & 26: Storage Tanks (cont.)	NSPS 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b	DOES NOT APPLY – volume less than 75 m ³ (19,813 gallons).
EQT0051, 52, & 53 – P-28, 29, 30: Boilers A, B, and C	Emission Standards for Sulfur Dioxide, LAC 33:III.Chapter 15	DOES NOT APPLY – Source emits less than 5 tons per year of SO ₂ . LAC 33:III.1502.A.3.
EQT0054 & 55 – P-32 &33: Thermal Oxidizers	Emission Standards for Sulfur Dioxide, LAC 33:III.Chapter 15	DOES NOT APPLY – Source emits less than 5 tons per year of SO ₂ . LAC 33:III.1502.A.3.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Addis Plant A															
EQT 0026 P-1							5.52	6.63	24.18				4.47	17.68	19.60
EQT 0027 P-2							5.52	6.63	24.18				4.47	17.68	19.60
EQT 0028 P-3															
EQT 0029 P-4															
EQT 0030 P-5							0.43								
EQT 0031 P-6							0.43								
EQT 0032 P-7							0.43								
EQT 0033 P-8							0.43								
EQT 0034 P-9							0.04	0.05	0.17				0.01	0.01	0.03
EQT 0035 P-10													0.03	0.16	0.12
EQT 0036 P-11													0.02	0.13	0.10
EQT 0037 P-12															
EQT 0039 P-14							0.15	0.18	0.64						
EQT 0040 P-15													10.40	10.40	0.26
EQT 0041 P-17													0.01	0.01	0.02
EQT 0042 P-18													0.01	0.01	0.03
EQT 0043 P-19													0.01	0.01	0.05
EQT 0044 P-20													0.01	0.01	0.05
EQT 0045 P-21													0.01	0.02	0.02
EQT 0046 P-22													0.01	0.02	0.03
EQT 0047 P-23													0.01	0.07	0.03
EQT 0048 P-24													0.01	0.07	0.03
EQT 0049 P-25													<0.01	0.01	0.01

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Addis Plant A															
EQT 0050 P.26	3.52	4.22	15.41	3.89	4.67	11.03	0.72	0.87	3.17	0.06	0.07	0.25	0.29	0.34	0.01
EQT 0051 P.28	3.52	4.22	15.41	3.89	4.67	11.03	0.72	0.87	3.17	0.06	0.07	0.25	0.29	0.34	0.01
EQT 0052 P.29	3.52	4.22	15.41	3.89	4.67	11.03	0.72	0.87	3.17	0.06	0.07	0.25	0.29	0.34	0.01
EQT 0053 P.30	3.52	4.22	15.41	3.89	4.67	11.03	0.72	0.87	3.17	0.06	0.07	0.25	0.29	0.34	0.01
EQT 0054 P.32	0.40	0.48	1.75	0.98	1.18	4.31	0.63	0.75	2.75	0.01	0.01	0.01	0.14	0.17	0.60
EQT 0055 P.33	0.40	0.48	1.75	0.98	1.18	4.31	0.63	0.75	2.75	0.01	0.01	0.01	0.14	0.17	0.60
EQT 0056 P.34															
EQT 0079 P.35															
EQT 0080 P.36							0.12	0.14	0.03				1.63	813.62	0.41
EQT 0081 P.37							0.12	0.14	0.03						
EQT 0082 P.38							0.15	0.18	0.04						
EQT 0083 P.39	1.79	7.34	0.63	8.33	42.97	2.91	0.59	4.14	0.21	0.55	3.20	0.19	0.66	2.01	0.23
EQT 0084 P.40										0.43					
EQT 0085 P.41										0.43					
EQT 0086 P.42										0.43					
EQT 0087 P.43										0.43					
EQT 0088 P.44										0.43					
EQT 0089 P.45										0.43					
EQT 0090 P.46										0.43					
EQT 0091 P.47										0.43					
EQT 0092 P.48										0.43					
EQT 0093 P.49										0.43					
FUG 0001 P.16													0.94	0.94	4.13

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/hr	Avg lb/hr	Max lb/hr	Tons/Year									
Addis Plant A															
GRP 0002 P-Cap							2.44		10.68						

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0026 P-1	Ammonia	0.11	0.13	0.47
	Methanol	0.88	5.10	3.86
	Vinyl chloride	2.00	9.28	8.78
EQT 0027 P-2	Ammonia	0.11	0.13	0.47
	Methanol	0.88	5.10	3.86
	Vinyl chloride	2.00	9.28	8.78
EQT 0036 P-11	Methanol	0.03	0.16	0.12
EQT 0038 P-13	Ammonia	0.01	0.03	0.03
EQT 0039 P-14	Chlorine	0.16	0.19	0.68
EQT 0040 P-15	Vinyl chloride	10.40	10.40	0.26
EQT 0041 P-17	Methanol	0.01	0.01	0.02
EQT 0042 P-18	Methanol	0.01	0.01	0.03
EQT 0043 P-19	Methanol	0.01	0.01	0.05
EQT 0044 P-20	Methanol	0.01	0.01	0.05
EQT 0047 P-23	Methanol	0.01	0.07	0.03
EQT 0048 P-24	Methanol	0.01	0.07	0.03
EQT 0049 P-25	Methanol	<0.01	0.01	0.01
EQT 0050 P-26	Methanol	<0.01	0.01	0.01
EQT 0051 P-28	Benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.01	0.01	0.03
	Toluene	<0.01	<0.01	<0.01
EQT 0052 P-29	Benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.01	0.01	0.03
	Toluene	<0.01	<0.01	<0.01
EQT 0053 P-30	Benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.01	0.01	0.03
	Toluene	<0.01	<0.01	<0.01
EQT 0054 P-32	1,2-Dichloroethane	<0.01	<0.01	0.01
	Chlorine	0.01	0.01	0.05
	Chloroethane	0.06	0.07	0.26
	Hydrochloric acid	0.05	0.06	0.23
	Methanol	<0.01	<0.01	<0.01
	Methyl chloride	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0054 P-32	Vinyl chloride	0.06	0.07	0.25
	n-butyl alcohol	0.02	0.02	0.07
EQT 0055 P-33	1,2-Dichloroethane	<0.01	<0.01	0.01
	Chlorine	0.01	0.01	0.05
	Chloroethane	0.06	0.07	0.26
	Hydrochloric acid	0.05	0.06	0.23
	Methanol	<0.01	<0.01	<0.01
	Methyl chloride	<0.01	<0.01	<0.01
	Vinyl chloride	0.06	0.07	0.25
	n-butyl alcohol	0.02	0.02	0.07
EQT 0079 P-35	Vinyl chloride	1.63	813.62	0.41
FUG 0001 P-16	Methanol	0.06	0.06	0.27
	Vinyl chloride	0.79	0.79	3.45
UNF 0001 Plant A	1,2-Dichloroethane			0.02
	Ammonia			0.97
	Benzene			<0.01
	Chlorine			0.78
	Chloroethane			0.52
	Formaldehyde			0.09
	Hydrochloric acid			0.46
	Methanol			8.33
	Methyl chloride			<0.01
	Toluene			0.01
	Vinyl chloride			22.18
	n-butyl alcohol			0.14

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0026 P-1 - Scrubber A

- 1 [40 CFR 61.64(e)(1)(ii)]
- 2 [40 CFR 61.67(b)]
- 3 [40 CFR 61.67(c)]
- 4 [40 CFR 61.67(f)]
- 5 [40 CFR 61.68(c)]
- 6 [40 CFR 61.68(f)]
- 7 [40 CFR 61.68]
- 8 [40 CFR 61.71(a)]
- 9 [40 CFR 63.43]
- 10 [LAC 33.III.131]

Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33.III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: None specified Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(c) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(i) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

In PVC slurry: Vinyl chloride \leq 27 ppmw. [40 CFR 63.43, LAC 33.III.5109]

Which Months: All Year Statistical Basis: Quarterly average Shall be maintained and operated with no visible emissions. Steam associated with operation of scrubber vents shall not be considered visible emissions. Vents shall be visually inspected for opacity on a daily basis. If visible emissions are detected, then, within three (3) working days, the permittee shall conduct a six minute opacity reading in accordance with EPA Reference Method 9. Records of opacity checks shall include emission point ID, date visual check was performed, a record if visible emissions were detected, a record of any Method 9 testing conducted and the results of any Method 9 test. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Cyclones shall be inspected semiannually and repaired/replaced as necessary. Records of maintenance inspections of the cyclones shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division

SPECIFIC REQUIREMENTS

AI ID: 63425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0026 P-1 - Scrubber A

- 11 [LAC 33:III.501.C.6] Total suspended particulate Conduct performance/emissions test: Due within six months after permit effective date - Using Method 5 of 40 CFR 60 Appendix A - Test either EQT26 or EQT27.
- 12 [LAC 33:III.501.C.6] Minimum scrubber water flow rate \geq 50 gallons/min. [LAC 33:III.501.C.6, LAC 33:III.1311.C]
- 13 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: Instantaneous minimum Scrubber water flow rate monitored by flow rate monitoring device continuously. [LAC 33:III.507.H.1.a, LAC 33:III.1311.C, 40 CFR 64]
- 14 [LAC 33:III.5107.A.2] Which Months: All Year Statistical Basis: Instantaneous minimum Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 15 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with LAC 33:III.551.
- 16 [LAC 33:III.5109] In PVC slurry: Vinyl chloride \leq 125 ppmw. [LAC 33:III.5109, LAC 33:III.551, 40 CFR 63.43] Which Months: All Year Statistical Basis: Daily average

EQT 0027 P-2 - Scrubber B

- 17 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]
- 18 [40 CFR 61.67(b)] Which Months: All Year Statistical Basis: None specified Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 19 [40 CFR 61.67(e)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- 20 [40 CFR 61.67(f)] Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 21 [40 CFR 61.68(c)] Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 22 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 23 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0027 P-2 - Scrubber B

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]

Which Months: All Year Statistical Basis: Quarterly average

Shall be maintained and operated with no visible emissions. Steam associated with operation of scrubber vents shall not be considered visible emissions. Vents shall be visually inspected for opacity on a daily basis. If visible emissions are detected, then, within three (3) working days, the permittee shall conduct a six minute opacity reading in accordance with EPA Reference Method 9. Records of opacity checks shall include emission point ID, date visual check was performed, a record if visible emissions were detected, a record of any Method 9 testing conducted and the results of any Method 9 test. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Cyclones shall be inspected semiannually and repaired/replaced as necessary. Records of maintenance inspections of the cyclones shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

- Total suspended particulate Conduct performance/emissions test: Due within six months after permit effective date - Using Method 5 of 40 CFR 60 Appendix A - Test either EQT26 or EQT27.
- Minimum scrubber water Flow rate >= 50 gallons/min. [LAC 33:III.501.C.6, LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Instantaneous minimum
- Scrubber water Flow rate monitored by flow rate monitoring device continuously. [LAC 33:III.507.H.1.a, LAC 33:III.1311.C, 40 CFR 64]
- Which Months: All Year Statistical Basis: Instantaneous minimum
- Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- MACT is determined to be compliance with LAC 33:III.551.
- In PVC slurry: Vinyl chloride <= 125 ppmw. [LAC 33:III.5109, LAC 33:III.551, 40 CFR 63.43]
- Which Months: All Year Statistical Basis: Daily average

EQT 0034 P-9 - H/C Cleaning Silo

- Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0034 P-9 - H/C Cleaning Silo

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
 In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Daily average

In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Quarterly average
 Total suspended particulate <= 0.01 gr/dscf.
 Which Months: All Year Statistical Basis: Hourly average
 Shall be maintained and operated with no visible emissions. Vents shall be visually inspected for opacity on a daily basis. Cyclones and baghouse shall be inspected every six months and whenever visual checks indicate inspections may be necessary. Cyclones shall be repaired/replaced and baghouse filter elements shall be changed as necessary. Records of maintenance inspections and activities shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Opacity <= 20 percent.
 Which Months: All Year Statistical Basis: Six-minute average
 44 [LAC 33:III.1311.C]

EQT 0036 P-11 - TB Storage Tank

Equip with a submerged fill pipe. [LAC 33:III.2103.A, LAC 33:III.551, 40 CFR 63.43]
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0038 P-13 - BN Storage Tank

Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0039 P-14 - Cooling Tower

- 50 [40 CFR 61.43]
 HAP monitored by grab sampling quarterly using methods allowed by 40 CFR 63.106. [40 CFR 63.43, LAC 33.III.551, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Single sample
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table S1.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
 Shall not use chromium-based water treatment chemicals in the tower. HAP shall not leak to the cooling water. [LAC 33.III.551, 40 CFR 63.43]

EQT 0040 P-15 - Reactors

- 53 [40 CFR 61.64(a)(1)]
 Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.64(a)(2) and 61.65(a). Subpart F. [40 CFR 61.64(a)(1)]
 Which Months: All Year Statistical Basis: Three-hour average
 Submit report: Due in writing within 10 days of any discharge to the atmosphere from any manual vent valve. Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.64(a)(3)]
 Do not discharge to the atmosphere from any manual vent valve on a poly(vinyl) chloride reactor in vinyl chloride service, except for an emergency manual vent valve discharge. Subpart F. [40 CFR 61.64(a)(3)]
 Vinyl chloride Conduct performance/emissions test: Due within six months after permit effective date - Using Methods and procedures specified in 40 CFR 61.67(g)(5). [40 CFR 61.64(c)]
 Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
 Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ. records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
 Vinyl chloride monitored by gas sampling once prior to discharge (opening) as specified by 61.67(g)(5). [40 CFR 61.67(g)(5)]
 Which Months: All Year Statistical Basis: Instantaneous determination
 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0040 P-15 - Reactors

- 64 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- Reactor opening: The last 90 day total emissions of Vinyl chloride recordkeeping by electronic or hard copy daily. These records shall be kept onsite and available for inspection by the Office of Environmental Compliance, Surveillance Division. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]
- Flue gas of the thermal oxidizers shall contain Vinyl chloride <= 10 ppmdiv. [40 CFR 63.43, LAC 33:III.551], LAC 33:III.5109]
- Which Months: All Year Statistical Basis: Three-hour average To maintain VOC emissions from the facility below the NNSR major source threshold, Total Alcohol Feed rate <= 120.2 tons (to the reactors).
- Which Months: All Year Statistical Basis: Annual total Total Alcohol charged to the reactors for the last 12 months and the monthly alcohol feed rate recordkeeping by electronic or hard copy monthly. These records shall be kept onsite and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- Total Alcohol charged to the reactors for the last 12 months and the monthly alcohol feed rates - Submit report: Due semiannually, by March 31st and September 30th.
- Total Alcohol Feed rate monitored by material feed/flow monitoring monthly.
- Which Months: All Year Statistical Basis: Monthly total Reactors Temperature monitored by temperature monitoring device daily.
- Which Months: All Year Statistical Basis: Instantaneous determination Reactors Temperature recordkeeping by electronic or hard copy daily.
- Reactors Pressure recordkeeping by electronic or hard copy daily.
- Reactors Pressure monitored by pressure instrument daily.
- Which Months: All Year Statistical Basis: Instantaneous determination Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with LAC 33:III.551.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0040 P-15 - Reactors

78 [LAC 33.III.551]

Vinyl chloride: To ensure compliance with 40 CFR 61.64(a)(2) and MACT determination of 0.0004 gram per kg of PVC produced, permittee shall measure and record VCM concentration in reactor prior to each opening using methods and procedures specified in 40 CFR 61 Subpart F, 40 CFR 61.67(g)(5). VCM emissions from each reactor opening, as well as VCM emissions from reactor opening for the last 90 days. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. VCM emissions above the maximum listed in this specific condition for any 90 consecutive day period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the 90 day average for the last 90 day period shall be submitted to the Office of Environmental Compliance, Enforcement Division quarterly. [LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109, 40 CFR 61.64(a)(2)]

79 [LAC 33.III.551]

Reactor opening: Vinyl chloride monitored by gas analysis once prior to discharge (opening) using methods and procedures specified in 40 CFR 61.67(g)(5). [LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Event total

80 [LAC 33.III.551]

Vinyl chloride emissions from reactor opening - Ninety (90) day rolling average - Submit report: Due quarterly, by June 30, September 30, December 31, March 31. [LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Route to the thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0041 P-17 - IF Make Up Tank

82 [LAC 33.III.5107.A.2]

Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33.III.51112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
 Shall be equipped with submerged fill pipes. [LAC 33.III.551, 40 CFR 63.43]

EQT 0042 P-18 - IF Measuring Tank

84 [LAC 33.III.5107.A.2]

Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33.III.51112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.
 Shall be equipped with submerged fill pipes. [LAC 33.III.551, 40 CFR 63.43]

EQT 0043 P-19 - UG Make Up Tank

85 [LAC 33.III.551]

Equip with a submerged fill pipe. [LAC 33.III.2103.A, LAC 33.III.551, 40 CFR 63.43]
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-c.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33.III.51112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33.III.5105.B.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

EQT 0044 P-20 - UG Measuring Tank

- 90 [LAC 33:III.2103.A] Equip with a submerged fill pipe. [LAC 33:III.2103.A, LAC 33:III.551, 40 CFR 63.43]
 91 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 92 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 93 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0047 P-23 - CG Make Up Tank

- 94 [LAC 33:III.2103.A] Equip with a submerged fill pipe. [LAC 33:III.2103.A, LAC 33:III.551, 40 CFR 63.43]
 95 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 96 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 97 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0048 P-24 - CG Measuring Tank

- 98 [LAC 33:III.2103.A] Equip with a submerged fill pipe. [LAC 33:III.2103.A, LAC 33:III.551, 40 CFR 63.43]
 99 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 100 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 101 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0049 P-25 - OZ Make Up Tank

- 102 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 103 [LAC 33:III.551] Shall be equipped with submerged fill pipes. [LAC 33:III.551, 40 CFR 63.43]

EQT 0050 P-26 - OZ Measuring Tank

- 104 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 105 [LAC 33:III.551] Shall be equipped with submerged fill pipes. [LAC 33:III.551, 40 CFR 63.43]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0051 P-28 - Boiler A

- 106 [40 CFR 60.48c(g)]
 Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)]
- 107 [40 CFR 60.48c(i)]
 Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
- 108 [LAC 33:III.11.01.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 109 [LAC 33:III.13.3.C]
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel)
- 110 [LAC 33:III.2201.D.1]
 Which Months: All Year Statistical Basis: None specified
 Nitrogen oxides <= 0.10 lb/MMBTU.
- 111 [LAC 33:III.2201.D.4]
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Nitrogen oxides monitored by technically sound method continuously.
- 112 [LAC 33:III.2201.H.1.a.i]
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- 113 [LAC 33:III.2201.H.1.a]
 Which Months: May-Sep Statistical Basis: None specified
 Boiler Flue Gas Oxygen monitored by CMS continuously.
- 114 [LAC 33:III.2201.H.1.a]
 Which Months: May-Sep Statistical Basis: Instantaneous determination
 In order to continuously demonstrate compliance with the NOX limits, Permittee shall implement procedures to operate the boiler within the fuel and oxygen limit established during the initial compliance test in accordance with LAC 33:III.2201.G.
- 115 [LAC 33:III.2201.H.1.a]
 Boiler flue gas Oxygen recordkeeping by electronic or hard copy continuously.
- 116 [LAC 33:III.2201.H.1]
 Fuel rate recordkeeping by electronic or hard copy continuously.
- 117 [LAC 33:III.2201.I.1]
 Submit test results. Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 118 [LAC 33:III.2201.I.1]
 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 119 [LAC 33:III.2201.I.2]
 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 120 [LAC 33:III.2201.I]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 121 [LAC 33:III.5107.A.2]
 Emits Class I and/or Class II TAP less than the MEF (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0052 P-29 - Boiler B

- 122 [40 CFR 60.48c(g)]
 Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)]
- 123 [40 CFR 60.48c(i)]
 Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shirtech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0052 P-29 - Boiler B

- 124 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 125 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 126 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.10 lb/MMBTU.
- 127 [LAC 33:III.2201.D.4] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Nitrogen oxides monitored by technically sound method continuously.
- 128 [LAC 33:III.2201.H.1.a.i] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
 Which Months: May-Sep Statistical Basis: None specified
- 129 [LAC 33:III.2201.H.1.a] Fuel rate recordkeeping by electronic or hard copy continuously.
 In order to continuously demonstrate compliance with the NOX limits, Permittee shall implement procedures to operate the boiler within the fuel and oxygen limit established during the initial compliance tests in accordance with LAC 33:III.2201.G.
 Boiler Flue Gas Oxygen monitored by CMS continuously.
 Which Months: May-Sep Statistical Basis: Instantaneous determination
- 130 [LAC 33:III.2201.H.1.a] Boiler flue gas Oxygen recordkeeping by electronic or hard copy continuously.
- 131 [LAC 33:III.2201.H.1.a] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 132 [LAC 33:III.2201.H.1.a] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 133 [LAC 33:III.2201.I.1] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- 134 [LAC 33:III.2201.I.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- 135 [LAC 33:III.2201.I.2] Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0053 P-30 - Boiler C

- 138 [40 CFR 60.48c(e)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)]
 Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
- 139 [40 CFR 60.48c(i)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0053 P-30 - Boiler C

- 141 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 142 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.10 lb/MMBTU.
- 143 [LAC 33:III.2201.D.4] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Nitrogen oxides monitored by technically sound method continuously.
- 144 [LAC 33:III.2201.H.1.a.i] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- 145 [LAC 33:III.2201.H.1.a] Which Months: May-Sep Statistical Basis: None specified
 Fuel rate recordkeeping by electronic or hard copy continuously.
- 146 [LAC 33:III.2201.H.1.a] Boiler Flue Gas Oxygen monitored by CMS continuously.
- 147 [LAC 33:III.2201.H.1.a] Which Months: May-Sep Statistical Basis: Instantaneous determination
 In order to continuously demonstrate compliance with the NOX limits, Permittee shall implement procedures to operate the boiler within the fuel and oxygen limit established during the initial compliance test in accordance with LAC 33:III.2201.G.
- 148 [LAC 33:III.2201.H.1.a] Boiler flue gas Oxygen recordkeeping by electronic or hard copy continuously.
- 149 [LAC 33:III.2201.I.1] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 150 [LAC 33:III.2201.I.1] Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- 151 [LAC 33:III.2201.I.2] Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.1.2.a through 1.2.d.
- 152 [LAC 33:III.2201.I.] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.1.3 and 1.4 as applicable.
- 153 [LAC 33:III.5107.A.2] Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0054 P-32 - Thermal Oxidizer A

- 154 [40 CFR 61.65(b)] Vinyl chloride <= 10 ppm. Subpart F. [40 CFR 61.65(b)]
 Which Months: All Year Statistical Basis: Three-hour average
 Vinyl chloride <= 10 ppm as determined by the continuous emission monitor system required under 40 CFR 61.68 Subpart F [40 CFR 61.65(d)(1)]
- 155 [40 CFR 61.65(d)(1)] Which Months: All Year Statistical Basis: Three-hour average
 Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 156 [40 CFR 61.67(b)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0054 P-32 - Thermal Oxidizer A

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F.

[40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Vinyl chloride recordkeeping by electronic or hard copy continuously. [40 CFR 61.68, 40 CFR 64]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)] Combustion Chamber Temperature monitored by temperature monitoring device continuously. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109, 40 CFR 64]

Which Months: All Year Statistical Basis: Hourly average DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33:III.551]

Which Months: All Year Statistical Basis: Three-hour average Combustion Chamber Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 63.43, LAC 33:III.5109]

Scrubber Liquid pH monitored by pH instrument continuously.

Which Months: All Year Statistical Basis: Instantaneous determination Scrubber Liquid pH recordkeeping by electronic or hard copy continuously.

Scrubber Liquid Flow rate monitored by flow rate monitoring device continuously.

Which Months: All Year Statistical Basis: Instantaneous determination Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

158 [40 CFR 61.67(f)]

159 [40 CFR 61.68(c)]

160 [40 CFR 61.68(d)]

161 [40 CFR 61.68(f)]

162 [40 CFR 61.68]

163 [40 CFR 61.68]

164 [40 CFR 61.71(a)]

165 [40 CFR 63.43]

166 [40 CFR 63.43]

167 [40 CFR 63.43]

168 [40 CFR 64.]

169 [40 CFR 64.]

170 [40 CFR 64.]

171 [40 CFR 64.]

172 [LAC 33:III.110.B]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0054 P-32 - Thermal Oxidizer A

- Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
- Shall visually inspect emissions to ensure compliance with opacity and particulate emission limits of this permit. Steam associated with operation of scrubber vents shall not be considered visible emissions. Vents shall be visually inspected for opacity on a weekly basis. If visible emissions are detected, then, within three (3) working days, the permittee shall conduct a six minute opacity reading in accordance with EPA Reference Method 9. Records of opacity checks shall include emission point ID, date visual check was performed, a record if visible emissions were detected, a record of any Method 9 testing conducted and the results of any Method 9 test. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 173 [LAC 33:III.501.C.6] Scrubber Liquid pH >= 6.0 (no units).
 Which Months: All Year Phases: Statistical Basis:
- 174 [LAC 33:III.1311] Scrubber Liquid Flow rate > 25 gallons/min.
 Which Months: All Year Statistical Basis: Hourly average
- 175 [LAC 33:III.501.C.6] VOC, Total - Speciation - Conduct performance/emissions test: Due 180 calendar days after Start of Operation - Using Methods 18 of 40 CFR 60 Appendix A.
 Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with LAC 33:III.551.
- 1.2-Dichloroethane <= 2.0 ppmvd. [LAC 33:III.5109, 40 CFR 63.43, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Maximum
- Flue gas shall contain Vinyl chloride <= 10 ppmvd. [LAC 33:III.551, LAC 33:III.5109, 40 CFR 63.43]
 Which Months: All Year Statistical Basis: Three-hour average
- Methanol <= 1.0 ppmvd. [LAC 33:III.551, LAC 33:III.5109, 40 CFR 63.43]
 Which Months: All Year Statistical Basis: Maximum
- Combustion Chamber Temperature >= 1600 F. [LAC 33:III.5109, 40 CFR 63.43, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Hourly average

EQT 0055 P-33 - Thermal Oxidizer B

- Vinyl chloride Conduct performance/emissions test: Due 180 calendar days after Start of Operation - Using Methods and procedures specified in 40 CFR 61.67(g)(1). [40 CFR 61.64(c)]
 Vinyl chloride <= 10 ppm. Subpart F. [40 CFR 61.65(b)]
 Which Months: All Year Statistical Basis: Three-hour average
- Vinyl chloride <= 10 ppm as determined by the continuous emission monitor system required under 40 CFR 61.68. Subpart F. [40 CFR 61.65(d)(1)]
 Which Months: All Year Statistical Basis: Three-hour average

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0055 P-33 - Thermal Oxidizer B

- Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- Calculate the vinyl chloride content of emissions by best practical engineering judgement based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
- Which Months: All Year Statistical Basis: None specified
- Vinyl chloride recordkeeping by electronic or hard copy continuously. [40 CFR 61.68, 40 CFR 64]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- Combustion Chamber Temperature recordkeeping by electronic or hard copy continuously. [40 CFR 63.43, 40 CFR 64, LAC 33:III.551, LAC 33:III.5109]
- Combustion Chamber Temperature monitored by temperature monitoring device continuously. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109, 40 CFR 64]
- Which Months: All Year Statistical Basis: Hourly average
- Flue gas shall contain Vinyl Chloride ≤ 10 ppmdry. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]
- Which Months: All Year Statistical Basis: Three-hour average
- Scrubber Liquid Flow rate recordkeeping by electronic or hard copy continuously.
- Scrubber Liquid pH monitored by pH instrument continuously.
- Which Months: All Year Statistical Basis: Instantaneous determination
- Scrubber Liquid Flow rate monitored by flow rate monitoring device continuously.
- Which Months: All Year Statistical Basis: Instantaneous determination

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SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0055 P-33 - Thermal Oxidizer B

- 202 [40 CFR 64.] Scrubber Liquid pH recordkeeping by electronic or hard copy continuously.
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 203 [LAC 33:III.1101.B] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
- 204 [LAC 33:III.1311.C] Shall visually inspect emissions to ensure compliance with opacity and particulate emission limits of this permit. Steam associated with operation of scrubber vents shall not be considered visible emissions. Vents shall be visually inspected for opacity on a weekly basis. If visible emissions are detected, then, within three (3) working days, the permittee shall conduct a six minute opacity reading in accordance with EPA Reference Method 9. Records of opacity checks shall include emission point ID, date visual check was performed, a record if visible emissions were detected, a record of any Method 9 testing conducted and the results of any Method 9 test. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
- 205 [LAC 33:III.1311] Scrubber Liquid Flow rate >= 25 gallons/min.
 Which Months: All Year Statistical Basis: Hourly average
- 206 [LAC 33:III.501.C.6] Scrubber Liquid pH >= 6.0 (no units).
 Which Months: All Year Phases: Statistical Basis:
 VOC. Total - Speciation - Conduct performance/emissions test: Due 180 calendar days after Start of Operation - Using Methods 18 of 40 CFR 60 Appendix A.
- 207 [LAC 33:III.501.C.6] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 208 [LAC 33:III.501.H.1.a] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with LAC 33:III.551.
- 209 [LAC 33:III.5107.A.2] 1,2-Dichloroethane <= 2.0 ppmdv. [LAC 33:III.5109, 40 CFR 63.43, LAC 33:III.551.]
 Which Months: All Year Statistical Basis: Maximum Combustion Chamber Temperature >= 1600 F. [LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Hourly average
- 210 [LAC 33:III.5109.A.1] Methanol <= 1.0 ppmdv. [LAC 33:III.551, LAC 33:III.5109, 40 CFR 63.43]
 Which Months: All Year Statistical Basis: Maximum DRE of Vinyl chloride >= 99.99 percent. [LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0057 P-SS - Slurry Stripper

- 215 [40 CFR 61.64(b)] Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(b)]
 Which Months: All Year Statistical Basis: Three-hour average

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0057 P-SS - Slurry Stripper

- 216 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride ≤ 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]
- 217 [40 CFR 61.64(e)] Which Months: All Year Statistical Basis: Daily average In PVC Slurry, Residual Vinyl chloride recordkeeping by electronic or hard copy once per batch during operation. [40 CFR 61.64(e)]
- 218 [40 CFR 61.64(e)] In PVC Slurry, the 90 day rolling average of residual Vinyl chloride recordkeeping by electronic or hard copy daily. [40 CFR 61.64(e)]
- 219 [40 CFR 61.64(e)] In PVC Slurry, the 90 day rolling average of residual Vinyl chloride monitored by calculations daily. [40 CFR 61.64(e)]
- 220 [40 CFR 61.64(e)] Which Months: All Year Statistical Basis: 90 Day average In PVC Slurry, daily weight average residual Vinyl chloride monitored by measurement once per batch during operation - using method specified in 40 CFR 61.67(g)(3), 61.70(c)(2), and the equation included in 61.70(c)(2)(v). [40 CFR 61.64(e)]
- 221 [40 CFR 61.65(b)(9)] Which Months: All Year Statistical Basis: Daily average Liquid shall be routed to the WW tank and WW stripper to reduce concentration of Vinyl chloride ≤ 10 ppmw. [40 CFR 61.65(b)(9)]
- 222 [40 CFR 61.65(b)(9)] Any wastewater stream with concentration of Vinyl chloride ≤ 10 ppmw shall be reduced (stripped) to ≤ 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration ≤ 10 ppmw. [40 CFR 61.65(b)(9)]
- 223 [40 CFR 61.67(b)] Which Months: All Year Statistical Basis: Maximum Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 224 [40 CFR 61.67(e)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- 225 [40 CFR 61.67(f)] Performance Test: Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 226 [40 CFR 61.68(c)] Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 227 [40 CFR 61.68(d)] Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 228 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 229 [40 CFR 61.71(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulations specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0057 P-SS - Slurry Stripper

- 230 [40 CFR 63.43] In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]
Which Months: All Year Statistical Basis: Quarterly average
- 231 [40 CFR 63.43] In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]
Which Months: All Year Statistical Basis: Daily average

EQT 0058 P-RS - VCM Receiver System

- Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(c)]
Which Months: All Year Statistical Basis: Three-hour average
Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
Except as provided in 40 CFR 61.67(g)(5)(ii), determine the reactor opening loss using the equation specified in 40 CFR 61.67(g)(5)(i). Subpart F. [40 CFR 61.67(g)(5)(i)]
Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(i) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
Shall be discharged to the reactors without vent. [LAC 33:III.551, 40 CFR 63.43]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0059 P-1a - Cushion Tank

- 243 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Statistical Basis: Daily average
- Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551]
- Which Months: All Year Statistical Basis: Daily average
- In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551]
- Which Months: All Year Statistical Basis: Quarterly average

EQT 0060 P-2a - Cushion Tank

- 252 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Statistical Basis: Daily average
- Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0060 P-2a - Cushion Tank

- 256 [40 CFR 61.68(c)]
 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s).
 the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
 In PVC slurry: Vinyl chloride <= 27 ppmw. [LAC 33.III.551, 40 CFR 63.43]
 Which Months: All Year Statistical Basis: Quarterly average
 In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Daily average

EQT 0061 P-GH1 - Gas Holder No. 1

- 261 [40 CFR 61.64(d)]
 Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
 Which Months: All Year Statistical Basis: Three-hour average
 Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
 Submit test results. Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]
 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s).
 the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0061 P-GH1 - Gas Holder No. 1

269 [LAC 33:III.551]

In exhaust gas: Vinyl chloride <= 10 ppmvd. [LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0062 P-GH2 - Gas Holder No. 2

270 [40 CFR 61.64(d)]

Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
 Which Months: All Year Statistical Basis: Three-hour average

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

In exhaust gas: Vinyl chloride <= 10 ppmvd. [LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0063 P-KOT - Knock-Out Tank

279 [40 CFR 61.64(d)]

Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
 Which Months: All Year Statistical Basis: Three-hour average

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-Y4
Air - Title V Regular Permit Renewal

EQT 0063 P-KOT - Knock-Out Tank

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
 In exhaust gas: Vinyl chloride <= 10 ppmvd. [LAC 33:111.551; 40 CFR 63.43, LAC 33:111.5109]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0064 P-RU1 - VCM Recovery Unit No. 1

Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
 Which Months: All Year Statistical Basis: Three-hour average
 Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit the results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shirltech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0064 P-RU1 - VCM Recovery Unit No. 1

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(i) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
In exhaust gas: Vinyl chloride <= 10 ppm/dv. [LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]

Which Months: All Year Statistical Basis: Three-hour average

EQT 0065 P-RU2 - VCM Recovery Unit No. 2

Vinyl chloride <= 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.64(d)]
Which Months: All Year Statistical Basis: Three-hour average

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
Performance Test: Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0065 P-RU2 - VCM Recovery Unit No. 2

305 [40 CFR 61.68]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.7(a)]
 In exhaust gas: Vinyl chloride <= 10 ppmw. [LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]

Which Months: All Year Statistical Basis: Three-hour average

EQT 0066 P-C - Centrifuges

308 [40 CFR 61.64(e)(1)(ii)]

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: Daily average

Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]

Which Months: All Year Statistical Basis: Maximum

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]
 Performance Test: Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(c) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.7(a). Subpart F. [40 CFR 61.68(f)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0066 P-C - Centrifuges

315 [40 CFR 61.68]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1) and (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

316 [40 CFR 61.71(a)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

317 [40 CFR 63.43]

In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]

318 [40 CFR 63.43]

Which Months: All Year Statistical Basis: Quarterly average In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]

Which Months: All Year Statistical Basis: Daily average

EQT 0067 P-D - Dryers

319 [40 CFR 61.64(e)(1)(ii)]

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]

320 [40 CFR 61.65(b)(9)]

Which Months: All Year Statistical Basis: Daily average Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]

321 [40 CFR 61.67(b)]

Which Months: All Year Statistical Basis: Maximum Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

322 [40 CFR 61.67(e)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

323 [40 CFR 61.67(l)]

Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(l)]

324 [40 CFR 61.68(c)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

325 [40 CFR 61.68(f)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

EQT 0067 P-D - Dryers

326 [40 CFR 61.68]

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]

Which Months: All Year Statistical Basis: Quarterly average

In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]

Which Months: All Year Statistical Basis: Daily average

EQT 0068 P-S - Separators

330 [40 CFR 61.64(e)(1)(ii)]

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33:III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: Daily average

Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmospheric, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]

Which Months: All Year Statistical Basis: Maximum

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]

Performance Test: Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.7 (a). Subpart F. [40 CFR 61.68(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.7(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

337 [40 CFR 61.71(a)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0068 P-S - Separators

- 338 [40 CFR 63.43] In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Quarterly average
 In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33:III.551, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Daily average

EQT 0069 P-WWT - Wastewater Tank

- 340 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 Wastewater stream: Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Three-hour average
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0070 P-WWS - Wastewater Stripper

- 345 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0070 P-WWS - Wastewater Stripper

- 348 [40 CFR 61.65(b)(9)] Wastewater stream: Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0071 PVCWW-1 - Centrifuge Wastewater Discharge

- 350 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 Vinyl chloride Conduct performance/emissions test: Due annually, by the 30th of July - Using Methods and procedures specified in 40 CFR 61.67(g)(3). [40 CFR 61.64(e)]
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmvd. [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1)]
 Which Months: All Year Statistical Basis: Three-hour average
 Wastewater stream: Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Maximum
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0072 PVCWW-2 - Wastewater Stripper Discharge

- 356 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmvd. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average
 Vinyl chloride Conduct performance/emissions test: Due annually, by the 30th of July - Using Methods and procedures specified in 40 CFR 61.67(g)(3). [40 CFR 61.64(e)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Add's Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0072 PVCWW-2 - Wastewater Stripper Discharge

- Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
- Which Months: All Year Statistical Basis: Maximum
 Wastewater stream: Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
- Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
- Which Months: All Year Statistical Basis: Three-hour average

EQT 0073 PVCWW-2a - Gas Holder No. 1 Wastewater Discharge

- Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
- Which Months: All Year Statistical Basis: Three-hour average
 Any wastewater stream with concentration of Vinyl chloride <= 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration <= 10 ppmw. [40 CFR 61.65(b)(9)]
- Which Months: All Year Statistical Basis: Maximum
 Wastewater stream: Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
- Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
- Which Months: All Year Statistical Basis: Three-hour average

EQT 0074 PVCWW-2b - Knock Out Tank Wastewater Discharge

- Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
- Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
- Which Months: All Year Statistical Basis: Three-hour average

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

EQT 0074 PVCWW-2b - Knock Out Tank Wastewater Discharge

Wastewater stream. Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Maximum
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0075 PVCWW-2c - VCM Recovery Wastewater Discharge

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 Wastewater stream. Shall reduce Vinyl chloride <= 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33.III.551, 40 CFR 63.43, LAC 33.III.5109]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride >= 99.99 percent. [40 CFR 63.43, LAC 33.III.5109, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Three-hour average

EQT 0076 PVCWW-2d - Gas Holder No. 2 Wastewater Discharge

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride <= 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0076 PVCWW-2d - Gas Holder No. 2 Wastewater Discharge

- 379 [40 CFR 61.65(b)(9)] Wastewater stream: Shall reduce Vinyl chloride \leq 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Maximum
 Any wastewater stream with concentration of Vinyl chloride $>$ 10 ppmw shall be reduced (stripped) to \leq 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration \leq 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride \geq 99.99 percent. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Three-hour average
- 380 [40 CFR 61.65(b)(9)]
- 381 [40 CFR 63.43] HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride \geq 99.99 percent. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]

EQT 0077 PVCWW-2e - Slurry Stripper Wastewater Discharge

- 382 [40 CFR 61.64(e)(1)(ii)] Weighted average residual concentration: Vinyl chloride \leq 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subpart F. [40 CFR 61.64(e)(1)(ii)]
 Which Months: All Year Statistical Basis: Daily average
 HAPs removed from wastewater shall be routed to thermal oxidizers with flue gas contains Vinyl chloride \leq 10 ppmdw. [40 CFR 61.64(e)(1), 40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Three-hour average
 Wastewater stream: Shall reduce Vinyl chloride \leq 10 ppmw using stripper per 40 CFR 61.64(e)(1) and 61.65(b)(9). [40 CFR 61.65(b)(9), 40 CFR 61.64(e)(1), LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109]
 Which Months: All Year Statistical Basis: Maximum
 Any wastewater stream with concentration of Vinyl chloride $>$ 10 ppmw shall be reduced (stripped) to \leq 10 ppmw prior to to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration \leq 10 ppmw. [40 CFR 61.65(b)(9)]
 Which Months: All Year Statistical Basis: Maximum
 HAPs removed from wastewater shall be routed to thermal oxidizers with DRE of Vinyl chloride \geq 99.99 percent. [40 CFR 63.43, LAC 33:III.5109, LAC 33:III.551]
 Which Months: All Year Statistical Basis: Three-hour average
- 383 [40 CFR 61.64(e)(1)]
- 384 [40 CFR 61.65(b)(9)]
- 385 [40 CFR 61.65(b)(9)]
- 386 [40 CFR 63.43]

EQT 0079 P-35 - Equipment Opening at Annual Shutdown

- 387 [LAC 33:III.5107.A.2] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
 Compliance with NESHAP 40 CFR 61 Subpart F has been determined to be compliance with MACT in accordance with LAC 33:III.5109.A.2.
- 388 [LAC 33:III.5109.A.1]

EQT 0080 P-36 - IB Loading Hopper

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

EQT 0080 P-36 - IB Loading Hopper

389 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0081 P-37 - IC Loading Hopper

390 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0082 P-38 - IFS Loading Hopper

391 [LAC 33.III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 P-16 - Fugitive Emissions

392 [40 CFR 61.64(c)] Vinyl chloride Conduct performance/emissions test. Due within six months after permit effective date - Using Methods and procedures specified in 40 CFR 61.67(g)(1). [40 CFR 61.64(e)]
 No discharge to the atmosphere from any relief valves on any vinyl chloride service except for an emergency relief discharge and except as provided in 40 CFR 61.65(d). [40 CFR 61.65(a)]
 Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

FUG 0001 P-16 - Fugitive Emissions

395 [LAC 33:II.2122]

Shall comply with 40 CFR 63 Subpart H in accordance with the streamlining provisions. The following program shall be streamlined:

1. LAC 33:III.5109 (40 CFR 63 Subpart H) for streams with => 5% Class I and II TAP
 2. LAC 33:III.551 for streams with => 10% VOHAP
 3. 40 CFR 63.43 for stream with =>10% VOHAP
 4. 40 CFR 61.65(b)(3) for stream with =>10% VOHAP
 5. 40 CFR 61.65(b)(4) for stream with =>10% VOHAP
 6. 40 CFR 61.65(b)(7) for stream with =>10% VOHAP
 7. 40 CFR 61.65(b)(8)(ii) for stream with =>10% VOHAP
 8. 40 CFR 61. Subpart V for stream with =>10% VOHAP
 9. LAC 33:III.2122 for streams with => 0% VOC
- [LAC 33:III.2122, LAC 33:III.551, 40 CFR 63.43, LAC 33:III.5109, 40 CFR 61.65(b)(3), 40 CFR 61.65(b)(4), 40 CFR 61.65(b)(7), 40 CFR 61.65(b)(8)(ii), 40 CFR 63.211.]

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be compliance with streamlined program.

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitive emission monitoring programs being streamlined, as indicated in the Paragraph 4 above. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
- b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
- c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semianual reports shall be submitted on September 30 and March 31, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semianual reports shall include any monitoring performed within the reporting period.
- d. The streamlined program shall not be used to replace the continuous monitoring requirements of 40 CFR 61.65(b)(8)(i).
[LAC 33:III.5109, LAC 33:III.551, 40 CFR 63.43, 40 CFR 61.65(b)(3), 40 CFR 61.65(b)(4), 40 CFR 61.65(b)(7), 40 CFR 61.65(b)(8)(ii), LAC 33:III.2122]

SPECIFIC REQUIREMENTS

AI ID: 833425 - Shirltech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

GRP 0002 P-Cap - Delivery & Bagging Silo Group

Group Members: EQT 0028EQT 0029EQT 0030EQT 0031EQT 0032EQT 0033EQT 0034EQT 0085EQT 0086EQT 0087EQT 0088EQT 0089EQT 0090EQT 0091EQT 0092EQT 0093

Weighted average residual concentration: Vinyl chloride <= 400 ppm in all PVC resins except dispersion resins, including latex resins, averaged separately for each type of resin, measured immediately after the stripping operation is completed. Subsumed by LAC 33.III.551 and 40 CFR 63.43. [40 CFR 61.64(e)(1)(ii)]

Which Months: All Year Statistical Basis: Daily average

Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]

Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

Performance Test: Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ. records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.67(f)

Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2). (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.

Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

In PVC slurry: Vinyl chloride <= 125 ppmw. [40 CFR 63.43, LAC 33.III.551]
 Which Months: All Year Statistical Basis: Daily average
 In PVC slurry: Vinyl chloride <= 27 ppmw. [40 CFR 63.43, LAC 33.III.551]

Which Months: All Year Statistical Basis: Quarterly average
 Shall be maintained and operated with no visible emissions. Vents shall be visually inspected for opacity on a daily basis. Cyclones and baghouse shall be inspected every six months and whenever visual checks indicate inspections may be necessary. Cyclones shall be repaired/replaced and baghouse filter elements shall be changed as necessary. Records of maintenance inspections and activities shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Total suspended particulate <= 0.01 gr/dscf.
 Which Months: All Year Statistical Basis: Three one-hour test average

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

GRP 0002 P-Cap - Delivery & Bagging Silo Group

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

UNF 0001 Plant A - Addis Plant A

- 412 [40 CFR 60] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 Shall maintain benzene in waste < 1 Megagram/year. [40 CFR 61.342(a)]
- 413 [40 CFR 61.342(a)] No discharge to the atmosphere from any relief valves on any vinyl chloride service except for an emergency relief discharge and except as provided in 40 CFR 61.65(d). [40 CFR 61.65(a)]
- 414 [40 CFR 61.65] Manual venting of equipment in vinyl chloride service shall be routed to a control system which has an exhaust gas concentration of Vinyl chloride <= 10 ppmdv. [40 CFR 61.65(b)(5)]
- 415 [40 CFR 61.65(b)(5)] Which Months: All Year Statistical Basis: Three-hour average
 Reduce vinyl chloride Volume <= 2 percent of the equipment's volume or 25 gallons prior to opening. [40 CFR 61.65(b)(6)j]
- 416 [40 CFR 61.65(b)(6)i] Which Months: All Year Statistical Basis: Instantaneous determination
 Any vinyl chloride removed from equipment prior to opening shall be routed to a control system which has an exhaust gas concentration of Vinyl chloride <= 10 ppmdv. [40 CFR 61.65(b)(6)ii]
- 417 [40 CFR 61.65(b)(6)ii] Which Months: All Year Statistical Basis: Three-hour average
 Vinyl chloride monitored by CMS continuously using gas chromatography, infrared spectrophotometry, flame ionization, or approved alternatives. [40 CFR 61.65(b)(8)]
- 418 [40 CFR 61.65(b)(8)ii] Which Months: All Year Statistical Basis: Instantaneous determination
 Any wastewater stream with concentration of Vinyl chloride > 10 ppmw shall be reduced (stripped) to <= 10 ppmw prior to be exposed to the atmosphere, or discharged as untreated wastewater, or mixed with any other wastewater streams which have vinyl chloride concentration < 10 ppmw. [40 CFR 61.65(b)(9)]
- 419 [40 CFR 61.65(b)(9)] Which Months: All Year Statistical Basis: Maximum
 Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 420 [40 CFR 61.67(b)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(c)]
- 421 [40 CFR 61.67(e)] Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 422 [40 CFR 61.67(f)] Shall comply with all applicable testing requirements of 40 CFR 61.67.
- 423 [40 CFR 61.67] Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 424 [40 CFR 61.68(c)]

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

UNF 0001 Plant A - Addis Plant A

- 425 [40 CFR 61.68(d)] Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 426 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 427 [40 CFR 61.70] Submit report due quarterly, by the 15th of March, June, September and December. Submit report according to the schedule specified in 40 CFR 61.70(a) and (b). Include the information specified in 40 CFR 61.70(c)(1) through (c)(4). Subpart F.
- 428 [40 CFR 61.71(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.7 (a)]
- 429 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 430 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 431 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 432 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 433 [LAC 33:III.1305.A] All reasonable precautions shall be taken to prevent particulate matter from becoming airborne.
- 434 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 435 [LAC 33:III.2119] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 436 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 437 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 438 [LAC 33:III.501.C.1] Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III Chapter 5.
- Submit a timely and complete permit application to the Office of Environmental Services, Permits Division as required in accordance with the procedures in LAC 33:III.Chapter 5.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

UNF 0001 Plant A - Addis Plant A

- 439 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
- Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

SPECIFIC REQUIREMENTS

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

UNF 0001 Plant A - Addis Plant A

- 450 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- Submit notification in the manner provided in LAC 33:III.3923.
- 451 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.i through B.4.viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5. Shall comply with all applicable provisions of LAC 33:III.Chapter 51, Subchapter M - Emissions Standards for Asbestos.
- Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.
- Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
- Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-8. In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
- Submit notification: Due within 90 days after any change in ownership of the source. Provide the notification in accordance with forms or guidance from the permitting authority and in accordance with requirements of LAC 33:III.1701.
- Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.
- Submit application for temporary exemption for testing: Due prior to test initiation. Conduct testing for the minimum duration consistent with obtaining valid results. the exception of the data being measured in the test).

SPECIFIC REQUIREMENTS

AI ID: 63425 - Shirltech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

UNF 0001 Plant A - Addis Plant A

- 463 [LAC 33:III.523.B.3] Submit test results. Due within 30 days of test completion to the administrative authority. The report details the conditions that were found to exist during a temporary exemption for testing. State if there is to be no permanent change in emissions from pretest conditions.
 Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
 [LAC 33:III.535, LAC 33:III.537]
- 464 [LAC 33:III.535] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 465 [LAC 33:III.5609.A.1.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 466 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 467 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 468 [LAC 33:III.5609.A] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 469 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 470 [LAC 33:III.5911.C] Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- 471 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

General Information

AID: 83425 Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	3120-00070	Shintech Louisiana LLC - Addis Plant A	CDS Number	11-16-1999
LAR000056416		Shintech Louisiana LLC - Addis Plant A	Hazardous Waste Notification	11-12-2004
LA0111023	LPDES #	LPDES Permit #	LPDES Permit #	06-25-2003
LAR10B118	LPDES #	LPDES Permit #	LPDES Permit #	05-22-2003
LAR10B120	LPDES #	LPDES Permit #	LPDES Permit #	01-01-2002
LAR10C656	LPDES #	LPDES Permit #	LPDES Permit #	11-01-2004
LAR10D448	LPDES #	LPDES Permit #	LPDES Permit #	04-04-2006
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-19-2006
		Radiation General License	Radiation License Number	09-21-2000
GL-519	Site Id#	Solid Waste Facility No	Solid Waste Facility No	08-20-2001
G-121-11059		TEMPO Merge	TEMPO Merge	12-18-2002
52299		TEMPO Merge	TEMPO Merge	11-13-2000
86674		Toxic Release Inventory	Toxic Release Inventory	07-19-2004
			Main FAX:	22568500062
			Main Phone:	2256851199
Physical Location:				
		9750 Hwy 1 S (a portion of) Addis, LA 70770		
	PO Box 358			
	Addis, LA 70770358			
Mailing Address:				
		30.327222 latitude, -91.256389 longitude, Coordinate Method: Lat/Long - DMS, Coordinate Datum: NAD83		
Location of Front Gate:				
Related People:				
	Name	Mailing Address	Phone (Type)	Relationship
Paul Allen	PO Box 358 Addis, LA 70710358	2256851199 (WP)	Radiation Contact For	
Paul Allen	PO Box 358 Addis, LA 70710358	2256851199 (WP)	Radiation Registration Billing Party for	
James Bell	PO Box 358 Addis, LA 70710358	JBELL@SHIN-TECH	Air Permit Contact For	
James Bell	PO Box 358 Addis, LA 70710358	2256851199 (ext 421)	Emission Inventory Contact for	
James Bell	PO Box 358 Addis, LA 70710358	22568500062 (WF)	Emission Inventory Contact for	
James Bell	PO Box 358 Addis, LA 70710358	JBELL@SHIN-TECH	Emission Inventory Contact for	
James Bell	PO Box 358 Addis, LA 70710358	22568500062 (WF)	TEDI Contact for	
James Bell	PO Box 358 Addis, LA 70710358	JBELL@SHIN-TECH	TEDI Contact for	
James Bell	PO Box 358 Addis, LA 70710358	22568500062 (WF)	Air Permit Contact For	
James Bell	PO Box 358 Addis, LA 70710358	2256851199 (ext 421)	Air Permit Contact For	
James Bell	PO Box 358 Addis, LA 70710358	2256851199 (ext 421)	TEDI Contact for	
David Wise	PO Box 358 Addis, LA 70710358	2256851199 (WP)	Water Billing Party for	
David Wise	PO Box 358 Addis, LA 70710358	2256851199 (WP)	Accident Prevention Billing Party for	

General Information

AI ID: 83425 Shintech Louisiana LLC - Addis Plant A

Activity Number: PER20090001

Permit Number: 2639-V4

Air - Title V Regular Permit Renewal

Related Organizations:	Name	Address	Phone (Type)	Relationship
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Operates	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	22568500062 (WF)	Operates	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Owns	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	22568500062 (WF)	Emission Inventory Billing Party	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Air Billing Party for	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	22568500062 (WF)	Air Billing Party for	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Emission Inventory Billing Party	
Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	22568500062 (WF)	Owns	

NAIC Codes:
325211, Plastics Material and Resin Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
 Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Alt - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Addis Plant A						
EQT 0026	P-1 - Scrubber A		650 MM lbs/yr	650 MM lbs/yr		8760 hr/yr
EQT 0027	P-2 - Scrubber B		650 MM lbs/yr	650 MM lbs/yr		8760 hr/yr
EQT 0028	P-3 - Delivery Silo A		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0029	P-4 - Delivery Silo B		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0030	P-5 - Delivery Silo C		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0031	P-6 - Delivery Silo D		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0032	P-7 - Delivery Silo E		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0033	P-8 - Delivery Silo F		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0034	P-9 - HIC Cleaning Silo		1 MM lbs/yr	1 MM lbs/yr		4380 hr/yr
EQT 0035	P-10 - CGF Storage Tank	8000 gallons				8760 hr/yr
EQT 0036	P-11 - TB Storage Tank	8000 gallons				8760 hr/yr
EQT 0037	P-12 - TE Storage Tank	8000 gallons				8760 hr/yr
EQT 0038	P-13 - BN Storage Tank	8000 gallons	43000 gallons/min	43000 gallons/min		8760 hr/yr
EQT 0039	P-14 - Cooling Tower		1300 MM lbs/yr	1300 MM lbs/yr		50 hr/yr
EQT 0040	P-15 - Reactors		1620 gallons			8760 hr/yr
EQT 0041	P-17 - IF Make Up Tank		2820 gallons			8760 hr/yr
EQT 0042	P-18 - IF Measuring Tank		1300 gallons			8760 hr/yr
EQT 0043	P-19 - UG Make Up Tank		1300 gallons			8760 hr/yr
EQT 0044	P-20 - UG Measuring Tank		1300 gallons			8760 hr/yr
EQT 0045	P-21 - UH Make Up Tank		1300 gallons			8760 hr/yr
EQT 0046	P-22 - UH Measuring Tank		1300 gallons			8760 hr/yr
EQT 0047	P-23 - CG Make Up Tank		470 gallons	18000 gallons/yr		8760 hr/yr
EQT 0048	P-24 - CG Measuring Tank		470 gallons	18000 gallons/yr		8760 hr/yr
EQT 0049	P-25 - OZ Make Up Tank		3000 gallons			8760 hr/yr
EQT 0050	P-26 - OZ Measuring Tank	3000 gallons				8760 hr/yr
EQT 0051	P-28 - Boiler A		97.2 MM BTU/hr	97.2 MM BTU/hr		8760 hr/yr
EQT 0052	P-29 - Boiler B		97.2 MM BTU/hr	97.2 MM BTU/hr		8760 hr/yr
EQT 0053	P-30 - Boiler C		97.2 MM BTU/hr	97.2 MM BTU/hr		8760 hr/yr
EQT 0054	P-32 - Thermal Oxidizer A		5.37 MM BTU/hr	5.37 MM BTU/hr		8760 hr/yr
EQT 0055	P-33 - Thermal Oxidizer B		5.37 MM BTU/hr	5.37 MM BTU/hr		8760 hr/yr
EQT 0056	P-34 - TN Storage Tank	8000 gallons				8760 hr/yr
EQT 0057	P-SS - Slurry Snipper					8760 hr/yr
EQT 0058	P-RS - VCM Receiver System					8760 hr/yr
EQT 0059	P-1a - Cushion Tank					8760 hr/yr
EQT 0060	P-2a - Cushion Tank					8760 hr/yr
EQT 0061	P-GH1 - Gas Holder No. 1					8760 hr/yr
EQT 0062	P-GH2 - Gas Holder No. 2					8760 hr/yr
EQT 0063	P-KOT - Knock-Out Tank					8760 hr/yr
EQT 0064	P-RU1 - VCM Recovery Unit No. 1					8760 hr/yr

INVENTORIES

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Addis Plant A						
EQT 0065	P-RU2 - VCM Recovery Unit No. 2					8760 hr/yr
EQT 0066	P-C - Centrifuges					8760 hr/yr
EQT 0067	P-D - Dryers					8760 hr/yr
EQT 0068	P-S - Separators					8760 hr/yr
EQT 0069	P-WWT - Wastewater Tank					8760 hr/yr
EQT 0070	P-WWS - Wastewater Striper					8760 hr/yr
EQT 0071	PVCWW-1 - Centrifuge Wastewater Discharge					8760 hr/yr
EQT 0072	PVCWW-2 - Vastewater Striper Discharge					8760 hr/yr
EQT 0073	PVCWW-2a - Gas Holder No. 1 Wastewater Discharge					8760 hr/yr
EQT 0074	PVCWW-2b - Knock Out Tank Wastewater Discharge					8760 hr/yr
EQT 0075	PVCWW-2c - VCM Recovery Wastewater Discharge					8760 hr/yr
EQT 0076	PVCWW-2d - Gas Holder No. 2 Wastewater Discharge					8760 hr/yr
EQT 0077	PVCWW-2e - Slurry Striper Wastewater Discharge					8760 hr/yr
EQT 0079	P-35 - Equipment Opening at Annual Shutdown					500 hr/yr
EQT 0080	P-36 - IB Loading Hopper					520 hr/yr
EQT 0081	P-37 - IC Loading Hopper					520 hr/yr
EQT 0082	P-38 - IFS Loading Hopper					520 hr/yr
EQT 0083	P-39 - Emergency Combustion Equipment					(None Specified)
EQT 0084	P-40 - Bagging Silo A		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0085	P-41 - Bagging Silo B		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0086	P-42 - Bagging Silo C		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0087	P-43 - DK-Unit A Vacuum Blower No. 1		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0088	P-44 - DK-Unit A Vacuum Blower No. 2		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0089	P-45 - DK-Unit B Vacuum Blower No. 1		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0090	P-46 - DK-Unit B Vacuum Blower No. 2		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0091	P-47 - Dust Collector		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0092	P-48 - DK-Unit C Vacuum Blower		14956 MM scf/yr	5000 SCFM		8760 hr/yr
EQT 0093	P-49 - Broken Bag Recovery System		14956 MM scf/yr	5000 SCFM		8760 hr/yr
FUG 0001	P-16 - Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Addis Plant A							
EQT 0026	P-1 - Scrubber A	85	121000	5.5	125	140	
EQT 0027	P-2 - Scrubber B	85	121000	5.5	125	140	
EQT 0028	P-3 - Delivery Silo A	76.6	5200	1.2	101	120	
EQT 0029	P-4 - Delivery Silo B	76.6	5200	1.2	101	120	

INVENTORIES

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<i>Addis Plant A</i>							
EQT 0030 P-5 - Delivery Silo C		76.6	5200	1.2		101	120
EQT 0031 P-6 - Delivery Silo D		76.6	5200	1.2		101	120
EQT 0032 P-7 - Delivery Silo E		76.6	5200	1.2		101	120
EQT 0033 P-8 - Delivery Silo F		76.6	5200	1.2		101	120
EQT 0034 P-9 - HIC Cleaning Silo		29.4	1000	.85		10	120
EQT 0035 P-10 - CGF Storage Tank				.17		22	
EQT 0036 P-11 - T8 Storage Tank				.17		22	
EQT 0037 P-12 - TE Storage Tank				.17		22	
EQT 0038 P-13 - BN Storage Tank				.17		22	
EQT 0039 P-14 - Cooling Tower		25	2477980	.546	2985	50	98
EQT 0040 P-15 - Reactors		41.8	3500	1.33		96	80
EQT 0041 P-17 - IF Make Up Tank				.17		38	
EQT 0042 P-18 - IF Measuring Tank				.17		21	
EQT 0043 P-19 - UG Make Up Tank				.17		38	
EQT 0044 P-20 - UG Measuring Tank				.17		29	
EQT 0045 P-21 - UH Make Up Tank				.17		38	
EQT 0046 P-22 - UH Measuring Tank				.17		27	
EQT 0047 P-23 - CG Make Up Tank				.17		38	
EQT 0048 P-24 - CG Measuring Tank				.17		27	
EQT 0049 P-25 - OZ Make Up Tank				.17		38	
EQT 0050 P-26 - OZ Measuring Tank				.17		27	
EQT 0051 P-28 - Boiler A		39	27840	3.9		100	300
EQT 0052 P-29 - Boiler B		39	27840	3.9		100	300
EQT 0053 P-30 - Boiler C		39	27840	3.9		100	300
EQT 0054 P-32 - Thermal Oxidizer A		49	3134	1.17		100	191
EQT 0055 P-33 - Thermal Oxidizer B		49	3134	1.17		100	191
EQT 0056 P-34 - TN Storage Tank				.17		22	
EQT 0079 P-35 - Equipment Opening at Annual Shutdown							
EQT 0080 P-36 - IB Loading Hopper		47.2	1387		49	38	70
EQT 0081 P-37 - IC Loading Hopper		47.2	1387		49	38	70
EQT 0082 P-38 - IFS Loading Hopper		57.4	1790		52	41	70
EQT 0084 P-40 - Bagging Silo A		76.6	5200	1.2		110	120

INVENTORIES

A1 ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Addis Plant A							
EQT 0085	P-41 - Bagging Silo B	76.6	5200	1.2		110	120
EQT 0086	P-42 - Bagging Silo C	76.6	5200	1.2		110	120
EQT 0087	P-43 - DK-Unit A Vacuum Blower No. 1	47.8	2250	1		10	210
EQT 0088	P-44 - DK-Unit A Vacuum Blower No. 2	47.8	2250	1		10	210
EQT 0089	P-45 - DK-Unit B Vacuum Blower No. 1	47.8	2250	1		10	210
EQT 0090	P-46 - DK-Unit B Vacuum Blower No. 2	47.8	2250	1		10	210
EQT 0091	P-47 - Dust Collector	66.67	9000		2.25	10	120
EQT 0092	P-48 - DK-Unit C Vacuum Blower	29.7	1400	1		10	160
EQT 0093	P-49 - Broken Bag Recovery System	29.7	1400	1		60	140
FUG 0001 P-16 - Fugitive Emissions							

Relationships:

ID	Description	Relationship	ID	Description
EQT 0057	P-SS - Slurry Slipper	Vents to	EQT 0061	P-GH1 - Gas Holder No. 1
EQT 0058	P-RS - VCM Receiver System	Vents to	EQT 0040	P-15 - Reactors
EQT 0059	P-1a - Cushion Tank	Vents to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0059	P-1a - Cushion Tank	Vents to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0060	P-2a - Cushion Tank	Vents to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0060	P-2a - Cushion Tank	Vents to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0061	P-GH1 - Gas Holder No. 1	Vents to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0061	P-GH1 - Gas Holder No. 1	Vents to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0062	P-GH2 - Gas Holder No. 2	Vents to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0062	P-GH2 - Gas Holder No. 2	Vents to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0063	P-KOT - Knock-Out Tank	Vents to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0063	P-KOT - Knock-Out Tank	Vents to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0064	P-RU1 - VCM Recovery Unit No. 1	Controlled by	EQT 0054	P-32 - Thermal Oxidizer A
EQT 0064	P-RU1 - VCM Recovery Unit No. 1	Controlled by	EQT 0055	P-33 - Thermal Oxidizer B
EQT 0065	P-RU2 - VCM Recovery Unit No. 2	Controlled by	EQT 0054	P-32 - Thermal Oxidizer A
EQT 0065	P-RU2 - VCM Recovery Unit No. 2	Controlled by	EQT 0055	P-33 - Thermal Oxidizer B
EQT 0066	P-C - Centrifuges	Vents to	EQT 0067	P-D - Dryers
EQT 0067	P-D - Dryers	Controlled by	EQT 0026	P-1 - Scrubber A
EQT 0067	P-D - Dryers	Controlled by	EQT 0027	P-2 - Scrubber B
EQT 0068	P-S - Separators	Controlled by	EQT 0026	P-1 - Scrubber A
EQT 0068	P-S - Separators	Controlled by	EQT 0027	P-2 - Scrubber B

INVENTORIES

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
 Activity Number: PER20090001
 Permit Number: 2639-V4
 Air - Title V Regular Permit Renewal

Relationships:

ID	Description	Relationship	ID	Description
EQT 0069	P-WWT - Wastewater Tank	Verbs to	EQT 0064	P-RU1 - VCM Recovery Unit No. 1
EQT 0069	P-WWT - Wastewater Tank	Verbs to	EQT 0065	P-RU2 - VCM Recovery Unit No. 2
EQT 0070	P-WWS - Wastewater Stripper	Verbs to	EQT 0062	P-GH2 - Gas Holder No. 2
EQT 0073	PVCWW-2a - Gas Holder No. 1 Wastewater Discharge	Controlled by	EQT 0070	P-WWS - Wastewater Stripper
EQT 0074	PVCWW-2b - Knock Out Tank Wastewater Discharge	Controlled by	EQT 0070	P-WWS - Wastewater Stripper
EQT 0075	PVCWW-2c - VCM Recovery Wastewater Discharge	Controlled by	EQT 0070	P-WWS - Wastewater Stripper
EQT 0076	PVCWW-2d - Gas Holder No. 2 Wastewater Discharge	Controlled by	EQT 0070	P-WWS - Wastewater Stripper
EQT 0077	PVCWW-2e - Slurry Stripper Wastewater Discharge	Controlled by	EQT 0070	P-WWS - Wastewater Stripper

Subject Item Groups:

ID	Group Type	Group Description
GRP 0002	Equipment Group	P-Cap - Delivery & Bagging Silo Group
UNF 0001	Unit or Facility Wide	Plant A - Addis Plant A

Group Membership:

ID	Description	Member of Groups
EQT 0028	P-3 - Delivery Silo A	GRP0000000002
EQT 0029	P-4 - Delivery Silo B	GRP0000000002
EQT 0030	P-5 - Delivery Silo C	GRP0000000002
EQT 0031	P-6 - Delivery Silo D	GRP0000000002
EQT 0032	P-7 - Delivery Silo E	GRP0000000002
EQT 0033	P-8 - Delivery Silo F	GRP0000000002
EQT 0084	P-40 - Bagging Silo A	GRP0000000002
EQT 0085	P-41 - Bagging Silo B	GRP0000000002
EQT 0086	P-42 - Bagging Silo C	GRP0000000002
EOT 0087	P-43 - DK-Unit A Vacuum Blower No. 1	GRP0000000002
EOT 0088	P-44 - DK-Unit A Vacuum Blower No. 2	GRP0000000002
EOT 0089	P-45 - DK-Unit B Vacuum Blower No. 1	GRP0000000002
EOT 0090	P-46 - DK-Unit B Vacuum Blower No. 2	GRP0000000002
EOT 0091	P-47 - Dust Collector	GRP0000000002
EOT 0092	P-48 - DK-Unit C Vacuum Blower	GRP0000000002
EOT 0093	P-49 - Broken Bag Recovery System	GRP0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0560	0560 PVC Manufacture (Rated Capacity)	1300	MM lbs/yr

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INVENTORIES

AI ID: 83425 - Shintech Louisiana LLC - Addis Plant A
Activity Number: PER20090001
Permit Number: 2639-V4
Air - Title V Regular Permit Renewal

SIC Codes:

2821	Plastics materials and resins	AI 83425
2821	Plastics materials and resins	UNF 001